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(54) Title: METHOD FOR THE IN VITRO DETERMINATION OF CELLULAR UPTAKE OF EXOGENOUS AND ENDOGENOUS SUBSTANCES USING NMR SHIFT AGENTS AND THE MAGIC ANGLE NMR TECHNIQUE

(57) Abstract: The present invention relates to a method for the in vitro quantitative determination of cellular uptake of exogenous or endogenous substances which method comprises applying MAS-NMR spectroscopy technique to an in vitro cellular sample, in combination with a shift agent. The said method is particularly advantageous as it finds general applicability for a variety of substances and cell samples.